

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: STP00-0869-00(013) Newton/Rockdale
P. I. No.: 730907
S.R. 20 Widening/Reconstruction

OFFICE: Engineering Services

DATE: June 12, 2008

FROM: Brian Summers, P.E., Project Review Engineer *REW*

TO: James B. Buchan, P.E. State Urban Design Engineer

SUBJECT: IMPLEMENTATION OF VALUE ENGINEERING STUDY ALTERNATIVES

Recommendations for implementation of Value Engineering Study Alternatives are indicated in the table below. Incorporate alternatives recommended for implementation to the extent reasonable in the design of the project.

ALT No.	Description	Savings PW & LCC	Implement	Comments
A-2	Reduce the shoulder width from 16' to 12'	\$1,206,000	Yes	This should be done.
B-1	Use 11' travel lanes in lieu of 12' travel lanes	\$1,600,000	Yes	This should be done.
D-2	Reduce the median width by 4' and use a 2' raised median with 1' offsets in lieu of curb and gutter median	\$1,083,000	Yes	This should be done.
B-4	Remove the Bike Lanes between Oglesby Bridge Road and Christian Circle North Road and construct a 10' Multi-Use Trail on the East side and maintain the sidewalk on the West side.	\$506,000	Yes	This should be done.

ALT No.	Description	Savings PW & LCC	Implement	Comments
B-4 F-1	(West side B-4 Alternative) Remove the Bike Lanes, construct a 10' Multi-Use Trail on the East side and eliminate the sidewalk on the West Side	\$830,000	No	This does not apply since VE Alternative B-4 will be implemented.
A-5 B-3	Redesign the S.R. 20/S.R. 212 Intersection at the Southern end of the project.	\$508,000	No	This would result in additional impacts to a Historic Parcel as well as a Cemetery.
B-6A	Construct a 5 lane Roadway section (11' travel lanes and 14' center turn lane and 10' shoulders through the S.R. 20/S.R. 212 intersection.	\$675,000	No	The Design Year Volume (58,900 A.D.T.) supports a raised median section.
B-6	(Alternate to B-6A) Construct a 5 lane Roadway section (11' travel lanes and 14' center turn lane and 12' shoulders.	\$3,375,000	No	The Design Year Volume (58,900 A.D.T.) supports a raised median section.
B-5	Reduce Sidewalk thickness from 6" to 4"	\$367,000	Yes	This should be done.

A meeting was held on June 9, 2007 to discuss the above recommendations. Neal O'Brien, Jill Franks, and Jason O'Neal with Urban Design, and Brian Summers, Ron Wishon and Lisa Myers with Engineering Services were in attendance.

Approved: Gerald M. Ross Date: 6/12/08
Gerald M. Ross, P. E., Chief Engineer

Attachments

c: Gus Shanine
R. Wayne Fedora
Todd Long
Ben Buchan
Chuck Hasty
Neal O'Brien
Jill Franks
Jason O'Neal
James Magnus
Mickey McGee
Thomas Parker
Ken Werho
Nabil Raad
Stenley Mack
Laura Rish
Lisa Myers



Preconstruction Status Report By PI Number

Print Date: 06/09/2008

PROJ ID	COUNTY	DESCRIPTION	MGMT. ROW DATE	SCHED DATE	MGMT. LET DATE
730907-	Newton, Rockdale	SR 20 FM SR 212 IN NEWTON CO NORTH TO CR 23/HONEY CREEK RD	Nov-09	Nov-11	Nov-11

STP00-0869-00(013) **FIELD DIST:** 2, 7
TIP #: RO-028 **TWIN:** **US:**
MPO: Atlanta TMA **EST DATE:** 12/7/2007
MODEL YR: 2020
PROJ MGR: O'Brien, Neal **PROJ LENGTH:** 4.19
PROG: Reconstruction/Rehabili **TYPE:** Widening
TYPE: tation **WORK:**
CONCEPT: ADD 4U(MED 20) **LET RESP:** DOT Congressional 3, 4, 8

SCHED START	SCHED FINISH	ACTIVITY	ACTUAL START	ACT/EST FINISH	PCT	DISTRICT COMMENTS
		Define Project Concept	1/6/1992	5/19/1992	100	UST (4-10-02) LOCALS WANT
		Concept Meeting	4/21/1992	6/13/2006	100	INTERIM PROJECT. (3/12/03)
		Concept Submittal and Review	5/19/1992	6/30/2006	100	NEED CONCEPT VALIDATION
		Receive Preconstruction Concept Approval	7/13/2006	7/26/2006	100	(9/22/03) W/O TO VALIDATE
		Management Concept Approval Complete	7/26/2006	7/26/2006	100	CONCEPT. (6/7/04) INITIAL
6/25/2008	7/1/2008	Value Engineering Study	7/5/2006		98	CTM HELD 4-27-04.
		Public Information Open House Held	1/10/2006	1/10/2006	100	PLANNING PIOH FOR JAN 05.
6/20/2008	5/8/2009	Environmental Approval	5/15/1997		93	(4/12/05) CONSULTANT
12/19/2008	12/19/2008	Public Hearing Held			0	(GRESHAM SMITH) REVISING
		Mapping	8/24/2007	9/13/2007	100	TRAFFIC AND LAYOUT; WILL
6/20/2008	6/24/2008	Field Surveys/SDE	8/17/2007		99	REQ. PIOH WHEN THOSE ARE
6/20/2008	9/25/2009	Preliminary Plans	8/25/2007		39	COMPLETE. (1/11/06) PIOH
6/20/2008	7/25/2008	Underground Storage Tanks			0	HELD 1/10/06.
10/27/2008	3/13/2009	404 Permit Obtainment			0	
10/19/2009	10/20/2009	PFPR Inspection			0	
8/19/2009	10/13/2009	R/W Plans Preparation			0	
11/11/2009	11/16/2009	R/W Plans Final Approval			0	
11/25/2009	11/27/2009	L & D Report Development and Approval			0	
11/17/2009	9/27/2011	R/W Acquisition			0	
4/9/2010	4/22/2010	Stake R/W			0	
11/25/2009	12/4/2009	Soil Survey			0	
11/30/2009	2/21/2011	Final Design			0	
3/15/2011	3/16/2011	FFPR Inspection			0	
3/30/2011	4/12/2011	FFPR Response			0	

BIKE PROVISIONS INCLUDED?: Y MEASUREMENT SYSTEM: E CONSULTANT: N UT EST: \$ 0.00

Bridge: NO BRIDGE REQUIRED
Design: JO|Prelim plans started 01/08 - JLF(2/27/08)
EIS: EAw/4(f)NotApvd|NotOnSchedRW|Rish(3-5-08)
LGPA: NOTIFICATION LETTER SENT TO NEWTON & ROCKDALE 4-21-05.
Planning: Portion of Project is on the Rockdale Co. Trails Master Plan (1998) see map
Programming: SEE 730907|X| PR2/PE=7-2-92#1 12-06
Traffic Op: >WGW:SEND PLANS FOR SIGN & MKG WHEN 50% COMP 4-5-08
Utility: WW|E.M.C.;SUE lvi B compl KCI
EMG: I352 (H85-W/V29); REFLY 6223/03; C=M/S/D(WO#51 URS)

R/W INFORMATION:

PREL PARCEL CT: 118 TOTAL PARCEL CT: ACQUIRED BY: DOT ACQ MGR:
 UNDER-REVIEW CT: RELEASED CT: OPT-PEND CT: DEEDS CT: COND-PEND CT: COND-FILED CT:
 RW CERT DT: ACQUIRED CT: RELOCATION CT:

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE STP00-0869-00(013), Rockdale/Newton Counties
P.I. No. 730907
SR 20 from SR 212 in Newton Co. North to
CR23/Honey Creek Road

OFFICE Urban Design

DATE May 27, 2008

FROM James B. Buchan, P.E., State Urban Design Engineer



TO Brian Summers, P.E., State Review Engineer

SUBJECT Value Engineering Study Report Response

This office has received and reviewed the recommendations of the Value Engineering Study Workshop Report dated January 8, 2008. Below are our responses to the recommendations:

A-2.) *Reduce the roadway section – Reduce both outside shoulder widths from 16-feet to 12-feet.*

This suggestion will be implemented.

B-1.) *Use 11-foot travel lanes in-lieu-of 12-foot travel lanes.*

This suggestion will be implemented.

D-2.) *Reduce the median width by four feet and use a two-foot raised concrete median with one-foot offsets in-lieu-of curb and gutter median (a.k.a. 16-foot median).*

This suggestion will be implemented.

B-4.) *Remove the bike lanes between Oglesby Bridge Road and Christian Circle North Road and construct a 10-foot multi-use trail on the east side, maintaining existing west side sidewalk.*

The section of the project between Oglesby Bridge Road and Christian Circle North Road is on the Rockdale County Master Trails Plan. A 10-foot multi-use trail on one side of the road does not meet the AASHTO requirements of a multi-use path. Rockdale County has agreed to the change recommended by the VE Study. This suggestion will be implemented upon a signed waiver approval by the Director of Preconstruction and the Chief Engineer.

B-4/ F-1.) *Remove the bike lanes between Oglesby Bridge Road and Christian Circle North Road and construct a 10-foot multi-use trail on the east side, and eliminate the sidewalk on the west side.*

See response above. We intend to implement B-4 therefore; we do not recommend implementing this alternative.

A-5/B-3.) To redesign the SR 20/SR 212 intersection at the southern end of the project.

The SR 20/Brown Bridge Road intersection has been coordinated with Newton County. The proposed location has been set aside by Newton County for the future location of the road. The county has been coordinating with perspective developments along this corridor with the proposed location. Traffic patterns will remain the same with the proposed location.

The redesign suggested by the VE Study would require a right turn lane heading northbound (estimated 405 right turning vehicles). This additional width would cause impacts to the cemetery on the east side of SR 20 where headstones are located right up to the right of way line and/or additional impacts to the historic property along the west side of SR 20.

We have minimized the cross section of the road through this section of the project to minimize the impacts to the surrounding environmental sensitive areas.

For these reasons, we do not recommend implementing this design alternate.

B-6A.) To construct a 5-lane section (11-foot travel lanes, 14-foot center lane, 10-foot shoulders) through the SR 20/SR 212 intersection area (Sta. 16+00 to 47+00)

The future through traffic volumes (58900 A.D.T.) and left turn volumes are too high for a 14-foot center turn lane. There are numerous residential and commercial driveways along this corridor. It would create an unsafe design.

For these reasons, we do not recommend implementing this design alternate.

B-6.) Construct a 5-lane roadway section with 11-foot travel lanes, 14-foot center lane, and 12-foot shoulders.

Because we do not recommend implementing a 14-foot center lane we do not recommend implementing this design alternative.

F-5.) To reduce sidewalk thickness from 6" to 4".

This suggestion will be implemented.

If there are any questions or comments concerning these recommendations, please contact Neal O'Brien or Jill Franks at (404) 656-5442.

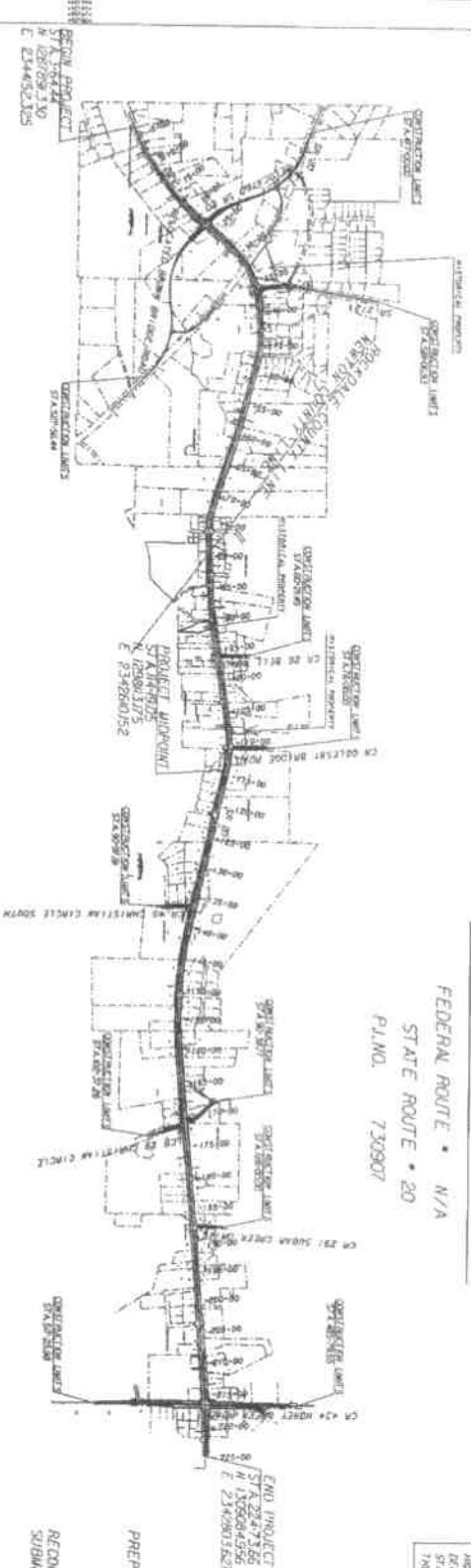
JBB:ALF 

cc: Todd Long, Director of Preconstruction

PLAN AND PROFILE OF PROPOSED
SR 20 FROM SR 212 IN NEWTON COUNTY NORTH TO
CR 23/HONEY CREEK IN ROCKDALE COUNTY

STP-869 (13)

FEDERAL ROUTE • N/A
STATE ROUTE • 20
P.L.NO. 730907

[illegible]RECOMMENDED FOR
SUBMISSION BY: _____

SUBMITTED BY: _____
STATE _____ DESIGN ENGINEER _____

THIS PROJECT HAS BEEN PREPARED USING THE MODERNIZATION GEORGIA COORDINATE SYSTEM OF 1984 AND BELONGS WEST ZONE AND THE NORTH AMERICAN VERTICAL DATUM (NAD83) OF 1983.

SCALE: 1"=1000'

LOCATION & DESIGN
APPROVAL DATE

FUNCTIONAL CLASS

UNION ARTERIAL STREET

THIS PROJECT IS 3/4 IN MENTION
COUNTY AND 66 IN MIDDLE COUNTY.
THIS PROJECT IS 3/2 IN CONGRESSIONAL
DISTRICT 5, 3/2 IN CONGRESSIONAL
DISTRICT 4, AND 302 IN DISTRICT 6.
PROJECT DESIGNATION
DESIGNED IN ENGLISH UNITS.

LENGTH OF PROJECT	CHARTER MILES AT 25% PENALTY RATE \$7500/MI.
NET LENGTH OF ROUND TRIP	419
NET LENGTH OF BRIGGS	000
NET LENGTH OF PROJECT	419
NET LENGTH OF EXCEPTS	000
GROSS LENGTH OF PROJECT	419

[illegible]